

June 8, 1988

SITE: SCRDI Bluff
BREAK: 34
OTHER: v6

Ms. Michelle M. Glenn
USEPA Region IV
345 Courtland Street, NE
Atlanta, GA 30365

Dear Ms. Glenn:

Subject: **Monthly Report (May 1988)**
SCRDI - Bluff Road Site, Columbia, SC
IT Project Number 408619

The following are the project accomplishments, on-going activities, and planned activities for the SCRDI - Bluff Road Site RI/FS. IT is under contract to the PRP Steering Committee's legal representative, Edwards and Angell of New York, NY and is receiving technical and administrative direction from de maximis, inc., of Knoxville, TN. The principals of de maximis are Bennie Underwood and Mike Miller (formerly GE's environmental projects officer and IT's primary contact with the PRP Steering Committee).

I will replace Randy Alewine in the near future as IT's project manager. Mr. Alewine is being transferred to Kansas City, Missouri, as manager of IT's new office there. A summary of my qualifications is provided in the attached resume.

If you have any questions or need additional information, please call me or Harry Bryson at 615/694-4294 or Mike Miller or Bennie Underwood of de maximis, inc. at 615/691-5052.

Sincerely,

John G. Morse
John G. Morse

Assistant Manager, Civil and
Environmental Engineering

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Attachment

cc: Mike Miller, de maximis, inc.
Lorelei J. Borland, Edwards and Angell



Project Accomplishments

- o Delivery of draft implementation to EPA Region IV on May 11, 1988. The plan consisted of a work plan, a health and safety plan, a quality assurance project plan (QAPP), and a field sampling plan (FSP).
- o An aerial photographic survey of the site was flown on April 14. Topographic maps were completed on June 3, 1988. Copies of these maps will be forwarded to your office after they have been proofed by IT and finalized by the contractor (Continental Aerial Surveys, Alcoa, TN).
- o Review of SCDHEC's SCRDI - Bluff Road site project file by Harry Bryson (IT) and meeting with Mr. Chris Staton, SCDHEC site project officer (April 11, 1988).

On Going Activities

Property Access Agreement

Mr. Bennie Underwood of de maximis, inc. is in the process of securing access agreements for access to the SCRDI site and to properties adjacent to the SCRDI property. All property owners have been identified and contacted. IT has prepared a map of the local area showing property lines and ownership. This map was prepared from current Richland County property tax maps obtained from the County Tax Assessors office. Access agreement are necessary for installation of monitoring wells and related field activities.

Security Fence

IT has prepared a preliminary cost estimate and specifications for installation of a new security fence around the site. The original security fence gates and most of the fabric have been stolen. IT is awaiting instruction (approval for go ahead from the PRP Steering Committee).

Removal of Steel Tank

IT has prepared a preliminary cost estimate a supplemental work plan for removal of the 3,000 gallon capacity cylindrical steel tank lying on the ground at the west end of the property. IT is awaiting further instructions from the PRP Steering Committee. The tank reportedly contains approximately 150 gallons of an oily sludge of unspecified composition. One analysis for "priority pollutants" performed on a sludge sample showed approximately 0.005 percent priority pollutant contact, mostly chlorinated phenols. The other constituents and properties of the sludge are unknown.

Planned Activities

Planned project activities are described in the draft implementation plan submitted to EPA Region IV in May, 1988. The draft plan describes activities that were approved by the PRP Steering Committee. Future activities will, of course, be in accordance with the final plan approved by EPA.

JOHN G. MORSE

Professional Qualifications

Mr. Morse is the assistant manager for civil and environmental engineering and the senior hydrogeologist responsible for supervision and technical management of hydrogeologic remedial investigations. He is a certified ground water professional by the American Society of Ground Water Scientists and Engineers. His academic background and expertise is in the application of computer modeling techniques to problems that involve ground water flow and contaminant migration. His experience includes development and coordination of field and computer modeling studies of chemical contamination in ground water and migration of radionuclides. He has extensive experience in the design, testing, and operation of ground water monitoring and sampling networks including the use of geophysics, geostatistics, and soil organic vapor monitoring to optimize field data acquisition. Mr. Morse is also experienced in and responsible for conducting record searches and site investigations for commercial and government facilities that handle hazardous waste, including RI/FS studies at Department of Defense, Department of Energy (DOE), and Superfund sites.

Education

M.S., Hydrology, University of Arizona, Tucson, Arizona; 1976
B.S., Physics, Ohio State University, Columbus, Ohio; 1966

Experience and Background

- 1984 - Senior Hydrogeologist, IT Corporation, Knoxville, Tennessee.
Present Assistant Manager of Civil and Environmental Engineering. Responsible for supervision and technical management of ground water contamination and underground storage tank (UST) investigations including remedial investigations and design and remediation of UST, hazardous, nuclear, and mixed-waste sites. Recent experience includes:
- Technical Supervisor for remedial investigations and feasibility studies that involve both hazardous and mixed waste for the United States Air Force, Navy, DOE installations, and EPA Superfund sites.
 - Program Director for underground storage tank and solvent recovery studies that involve the location, abatement, and removal of volatile organics and floating hydrocarbons from ground water for numerous commercial clients in the southeast United States.
 - Senior hydrogeologist responsible for coordinating hydrogeologic studies that involve long-term nuclear waste disposal and

remedial investigations of nuclear facilities including the DOE waste isolation pilot plant in southeast New Mexico and facilities managed by the Oak Ridge National Laboratory. Conducted field investigations and computer modeling for long-term performance assessment, risk analysis, and dose-to-man calculations for nuclear and hazardous waste sites.

- 1982 - Consulting Hydrogeologist, Morse & Associates, Gainesville, Florida.
1984 Provided ground water consulting services in the areas of computer modeling, solid and hazardous waste site evaluation, and permitting and regulatory guidance. Provided hydrogeological consulting support for Phase II IRP studies at Eglin Air Force Base. Conducted ground water and contaminant transport computer modeling for effluent disposal through rapid infiltration and upgrade of an automated well-field analysis and monitoring system. Prepared input to state and federal hazardous waste regulations and assessed permit requirements for new hazardous waste facilities.
- 1979 - Geoscience Group Leader, Environmental Science and Engineering,
1982 Gainesville, Florida. Supervised environmental licensing, hydrogeologic studies, and field data collection activities for commercial and government clients. Supervised record researches and site investigations of soil, surface, and ground water contamination at eight Department of Defense installations and numerous hazardous waste disposal sites including Superfund sites in Indiana, New Jersey, and Florida. Supervised and coordinated environmental and water supply studies at five coal-fired power plant sites including Crystal River Units 4 and 5 in Florida and proposed sites for Atlantic City Electric in New Jersey and Soyland Cooperative in Illinois. Conducted a water supply study for the City of Titusville, Florida and ground water impact studies for phosphate companies in Lakeland, Florida.
- 1978 - Staff Hydrogeologist, U.S. Geological Survey, Tucson, Arizona.
1979 Responsible for developing, calibrating, and verifying ground water computer models in support of a regional aquifer study of the southwest Alluvial Basin and Range Province. Initiated basin models for Tucson, Avra Valley, and Phoenix. Established local database of ground water consumption and water levels for use in the project.
- 1977- Hydrogeologist and Reservoir Engineer, Lawrence Livermore Labora-
1978 tories, Livermore, California. Responsible for conducting applied research in support of energy development projects. Conducted reservoir engineering and well testing for the Salton Sea Geothermal Field in the Imperial Valley of California. Conducted in situ coal gasification hydrologic testing near Gillette, Wyoming and developed field testing techniques for use in corrosive, high-temperature environments. Participated in review of analysis and computer modeling studies for the nuclear waste terminal storage (NWTs) program.
- 1974 - Research and Teaching Assistant, Hydrology and Water Resources
1976 Department, University of Arizona, Tucson, Arizona. Researched numerical methods in flow-through porous media with emphasis on

solution techniques to complex boundary and mass transport computer problems, and infiltration characteristics of semi-arid soil using gamma-ray attenuation techniques and computer modeling of saturated and unsaturated flow. Taught classes in analysis of ground water systems.

1967 - Commissioned Officer, U.S. Navy, East Coast Command. Naval Flight
1978 Officer on both active duty and reserve status, responsible for supervising 11- to 13-man flight crews conducting open-ocean submarine surveillance and electronic intelligence gathering.

Professional Affiliations

Florida Water Well Association
National Water Well Association
Association of Ground Water Scientists and Engineers

Registration

Certified Ground Water Professional, NWWA

Publications

J. Meyers, J. G. Morse, et al., "The Waste Isolation Pilot Plant Performance Assessment Program," Waste Management, "86" Meeting, March 1986.

I. D. Colton, and J. G. Morse, "Water Quality Sampling Program at the Waste Isolation Pilot Plant (WIPP) in Southeastern New Mexico," American Geophysical Union Fall Meeting, 1985.

J. G. Morse and I. D. Colton, "Water Quality Sampling Plan, WIPP-DOE-215," Waste Isolation Pilot Plant, Carlsbad, New Mexico, 1985.

J. G. Morse and B. W. Hassinger, "Brine Testing Program - Waste Isolation Pilot Plant (WIPP) Project," Carlsbad, New Mexico, Rev. 2, 1985.

J. G. Morse and R. Stone, "Well Testing and Evaluation of Reservoir Properties in a Portion of the Salton Sea Geothermal Field," Report UCRL-72756, Lawrence Livermore Laboratory, 1979.

J. G. Morse, "A Case History of a Salton Sea Geothermal Brine Disposal Well," Second Invitational Well Testing Symposium, Berkeley, California, 1978.

J. G. Morse, "Adapting Coaxial Cable Head Assemblies for Use in Geothermal Wells," Report UCRL-80152, 85th National Meeting of the AICHE, Philadelphia, Pennsylvania, 1978.

J. G. Morse, and L. D. Thorsen, "Reservoir Engineering Study of a Portion of the Salton Sea Geothermal Field," Geothermal Resource Council Annual Meeting, Hilo, Hawaii, 1978.

J. G. Morse, "Well Interference Study of the Multi-layered Salton Sea Geothermal Reservoir," Third Annual Stanford Geothermal Reservoir Engineering Workshop, Stanford, California, 1977.

J. G. Morse, "Rainfall Infiltration Characteristics for a Semi-Arid Watershed Soil," Masters Thesis, University of Arizona, Tucson, Arizona, 1976.